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Practice Problems

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Venn Diagrams



Rides a bike only



Rides & roller blades

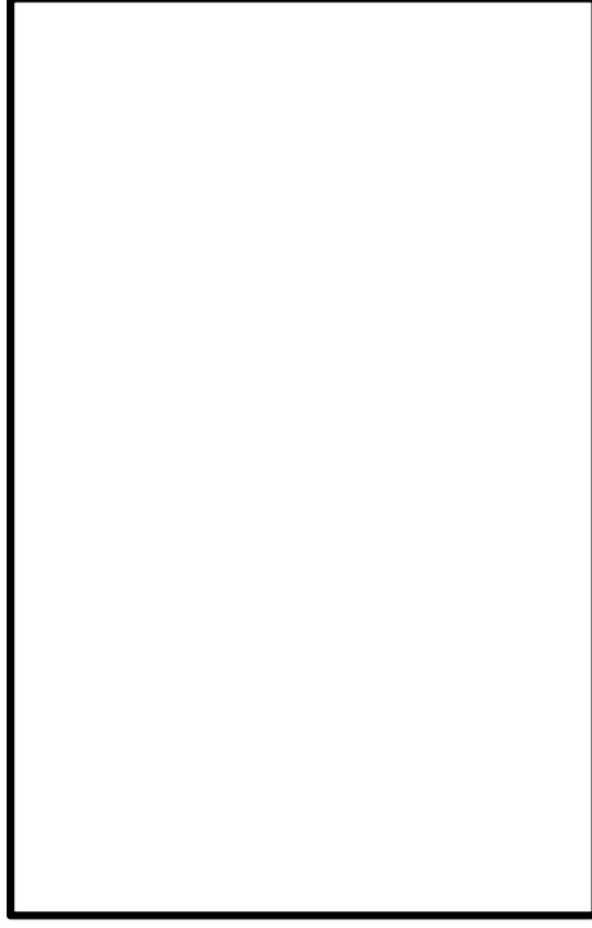
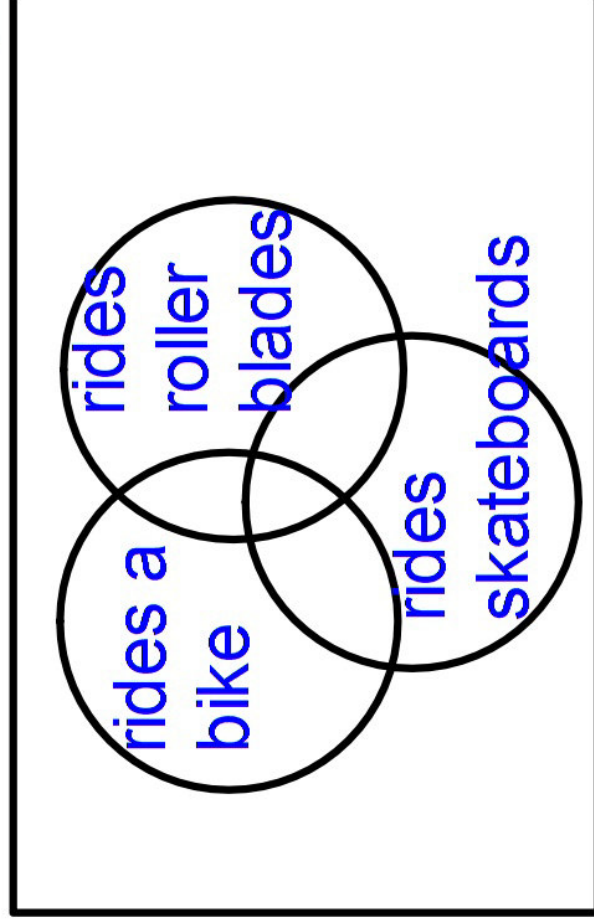


Rides, blades & skateboards Participates in exactly one activity

II. Sketch a Venn diagram to illustrate the given the facts about ...

a) a class of students

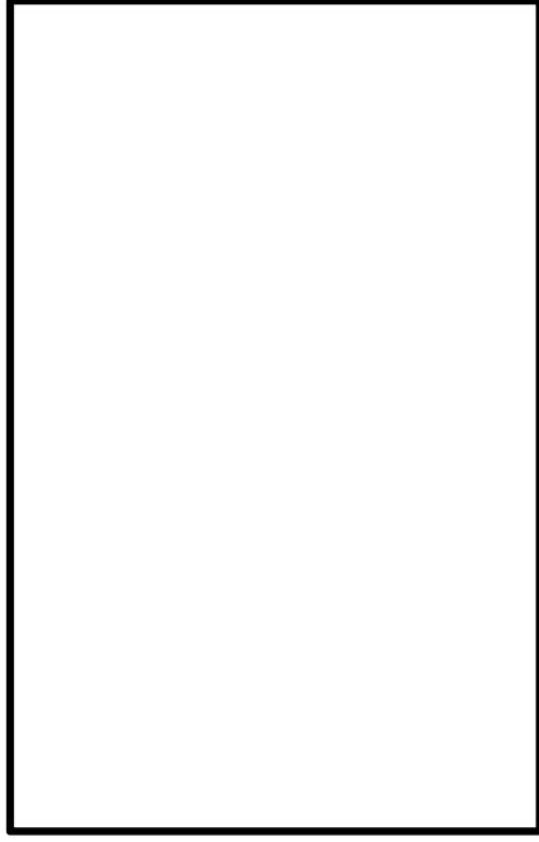
- In a class of 32 students, 25 are freshman.
- Ten of the freshman girls play sports.
- 12 girls play sports.
- Seven Freshman boys play sports.
- 21 students play sports.
- Five freshman girls do not participate in a sport.



How many girls are in the class? \_\_\_\_\_

b) a group of 90 musicians.

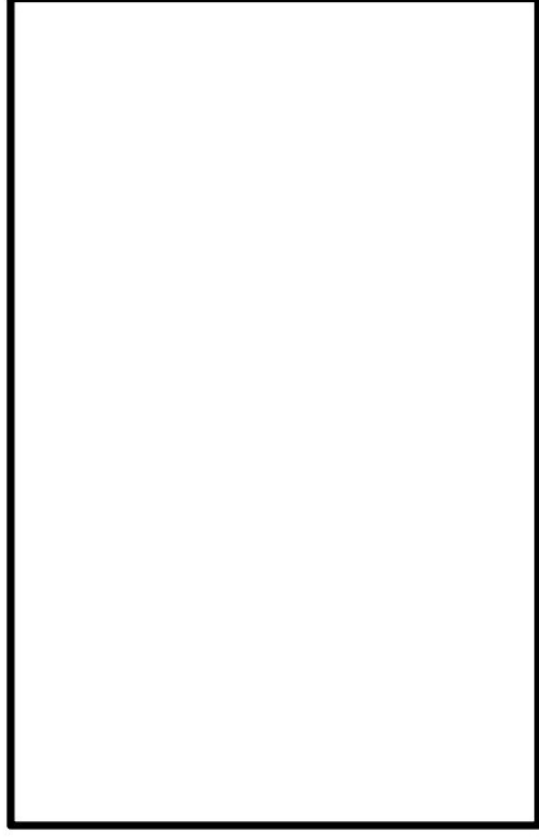
- 12 musicians played in the marching band and played the trumpet.
- 18 musicians played the trumpet.
- 75 musicians were in the marching band.



How many musicians were neither in the marching band, nor played the trumpet? \_\_\_\_\_

How many musicians were not in the marching band? \_\_\_\_\_

- c) a club of varsity athletes
- 25 athletes played soccer
- 7 athletes played soccer and baseball
- 14 athletes played baseball
- 9 athletes played tennis
- 7 athletes played soccer and baseball
- 6 athletes played soccer and tennis
- 4 athletes played baseball and tennis
- 2 athletes played all three sports



How many athletes played soccer, but not baseball or tennis? \_\_\_\_\_

How many athletes played soccer and baseball, but not tennis? \_\_\_\_\_

How many athletes played just one of the three sports? \_\_\_\_\_